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## **A brief study on the tribes Tortricini and Archipini (Lepidoptera: Tortricinae) from Iran**

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### **Abstract**

Thirty-three species of the tribes Tortricini and Archipini are listed. Previous studies dealing with the tribes are summarized and new data on their distribution in Iran are provided. The genera *Aleimma* and *Argyrotaenia* and the species *Aleimma loeflingiana* (LINNAEUS), *Acleris rhombana* (DENIS & SCHIFFERMÜLLER), *A. quercinana* (ZELLER), *A. sparsana* (DENIS & SCHIFFERMÜLLER), *A. lacordairana caucasica* FILIPJEV, *A. forsskaleana* (LINNAEUS), *Pandemis heparana* (DENIS & SCHIFFERMÜLLER), *Argyrotaenia ljugiana* (THUNBERG), *Choristoneura lafauryana* (RAGONOT), *Archips crataeganus* (HÜBNER), *A. philippa* (MEYRICK), *Aphelia ochreana* HÜBNER, *A. viburnana* (DENIS & SCHIFFERMÜLLER) and *A. peramplana* (HÜBNER) are newly reported from Iran.

### **Introduction**

The subfamily Tortricinae is a paraphyletic group, but there are no synapomorphies to associate particular tribes within the subfamily. This subfamily consists of 11 tribes, many of which are distributed in the Palaearctic region with some (Sparganothini, Eulini) having only a few representatives. So far, more than 2600 species belonging to 372 genera have been described in the Tortricinae, of which most belong to two tribes, the Cochylini and Archipini (HORAK 1999).

Our knowledge of the tortricid fauna of Iran goes back to the 19<sup>th</sup> century, when a dozen species were collected by European scholars, mainly during their survey of Astarabad and Shahrud (STAUDINGER & REBEL 1901). Although there are some notes on the Tortricoidea of Iran in LEDERER (1870), CHRISTOPH (1876), OSTHELDER (1938) and AMSEL (1949, 1959) and as many as 40 species of this family cited by them in total (RAZOWSKI 1963; ABIVARDI 2001), the most useful paper devoted to this family was published by RAZOWSKI (1963), who studied a total of 200 specimens collected by Fred Brandt and E. P. Wiltshire and representing almost 60 species including 14 new from Iran. Subsequently, nobody focused mainly on the tortricids of Iran, except for a few papers published since then (KENNEL 1899; OBRAZTSOV 1954-1964; RAZOWSKI 1970a, b, 1981; ABIVARDI 2001, KARISCH 1992, 2003, 2005; SUTTER & KARISCH 2004 and ALIPANAH 2004).

For such a country with a relatively diverse fauna and flora, only a few species in six tribes, the Tortricini, Cocylini, Cnephasiini, Archipini, Sparganothini and Euliini, have been recorded to date, mostly belonging to the first four tribes (MODARRÉS AWAL 1997), compared with 1606 species known from the Palaearctic region (HEPPNER 1998); however, many further species might be expected to occur in this territory.

In the present survey, specimens of the two tribes Tortricini and Archipini were studied and data of their distribution in Iran are summarized in the present paper. Although this study is mainly based on the specimens preserved in the Hayk Mirzayans Insects Museum (HMIM) of the Iranian Research Institute of Plant Protection (IRIPP), it still does not cover all parts of Iran and many regions remain to be studied. Most of the specimens deposited there were collected during the last 50 years or so. Of the four genera of the tribe Tortricini in the Palaearctic region (RAZOWSKI 1987), *Tortrix* LINNAEUS and *Acleris* HÜBNER comprising a total of four reported species have been previously known from Iran, while the tribe Archipini is represented in the country by 15 species from the following genera: *Pandemis* HÜBNER, *Argyrotaenia* STEPHENS, *Choristoneura* LEDERER, *Archips* HÜBNER, *Aphelia* HÜBNER, 1825, *Clepsis* GUENÉE, 1845 (RAZOWSKI 1993; BROWN et al. 2005).

## Tribe Tortricini

### Genus *Aleimma* HÜBNER, 1825

#### *Aleimma loeflingiana* (LINNAEUS, 1758)

**Material examined:** Kohgiluyeh & Boyerahmad province: 1 ♀, Yāsuj, Tang-e Sorkh, 12.-13.vi.1986, Mirzāyāns, Hāshemi leg.; Kordestān province: 2 ♀♀ 1 ♂, Sanandaj, Ariz, 2200 m, 5.vii.1972, Mirzāyāns, Abāi leg., 1 ♀, 45 km S W Saghez, Saghez- Bāneh, 2000 m, 30.vi.1975, Pāzuki leg.

**Distribution:** Europe east as far as the Ural Mts, Caucasus, Asia Minor, Syria (RAZOWSKI 2002).

**Remarks:** Wingspan 18-20 mm (n = 5). In the female genitalia of the examined specimens, distal end of apophysis posterior blade-like and colliculum not sclerotized. This species is new to the fauna of Iran.

## Genus *Tortrix* LINNAEUS, 1758

### *Tortrix viridana* LINNAEUS, 1758

**Material examined:** Kohgiluyeh & Boyerahmad province: 1♂ 13♀♀, Yāsuj, Tang-e Sorkh, 12.-13.vi.1986, Mirzāyāns, Hāshemi leg., 1♂, Sisakht, 2100 m, 16.vi.1986, Mirzāyāns, Hāshemi leg., 10♀♀, 1700 m, 12.v.1968, Mirzāyāns, Hāshemi leg., 4♂♂ 1♀♀, Kākān, Hoseinkhāni 2100 m, 26-27.v.1995, Badii, Sarafrāzi, Hāshemi leg.; Khuzestān province: 14♂♂ 32♀♀, Dezful, Shāhiyun, Sālenkuh, 1250 m, 8.v.2007, Mofidi-Neyestānak, Gilāsiān, Hājesmailiān leg.; Fārs province: 1♀, Kāmfiruz, Tang-e Bostānak, 1650 m, 8-9.vi.1996, Sarafrāzi, Linnavori, Badii leg., 2♀♀, Sepidān, Sheshpir, 2200 m, 25.-26.v.1995, Badii, Sarafrāzi, Hāshemi leg.; Golestān province: 1♂, Golestān National Park, Sulgerd, 1100 m, 16.-18.vii.1985 Pāziki leg.; Lorestān province: 2♂♂ 3♀♀, Dorud, Emārat, 1332 m, 16.v.2002, Moghaddam, Serri, Pārsi, Nematīān leg., 2♀♀, Khoramābād, Badrābād, 13.v.1994, 1200 m, Hāshemi, Sarafrāzi leg.

**Distribution:** A west Palaearctic species: NW. Africa, Europe from Iberian Peninsula to the Ural, Georgia, Azerbaijan, Asia Minor, Iran (RAZOWSKI 2002).

**Remarks:** Wingspan of the examined specimens 20-25 mm (n = 87). This species was previously reported from Push-t-i Bam (a false spelling of Dasht-e Barm) (ABIVARDI 2001), Fars (4.v.1950) (RAZOWSKI 1963) and Golestan National Park (Tang-e Gol, Almehr Tal) (WIESER et al. 2001).

## Genus *Acleris* HÜBNER, [1825]

### *Acleris napaea* (MEYRICK, 1912)

**Material examined:** Kohgiluyeh & Boyerahmad province: 1♂, Sisakht, 2100 m, 16.vi.1986, Mirzāyāns, Hāshemi leg.; Khorāsān-e Razawi province: 1♀, Mashhad, 18.vi.1974, Shāhrokhi leg., 1♂, 38 km N Gonābad, 830 m, 7.vi.1977, Safavi, Pāzuki, Abāi leg.; Golestān province: 2♀♀, Golestān National Park, Tang-e Gol, 620 m, 7.ix.1994, Manzari, Moghaddam, N. Nazari leg.; Kermān province: 1♂, Lālezār, 7.vi.1971, Hāshemi, Naim leg.; Zanjān province: 1♀, 54 km E Zanjān, Amirābād, 1780 m, 14.vii.1976, Pāzuki, Borumand leg.

**Distribution:** Described from Asia: known from Iran, Pakistan, Afghanistan eastward to Uzbekistan, Armenia and Turkmenia; found in SE. Europe (RAZOWSKI 2002)

**Remarks:** Both of the two forms from E. Afghanistan (specimens from Zanzan and Sisakht) and Turkmenia, Kara Kala (specimens from Khorasan-e Razawi and Kerman) can be found in Iran. The wingspan of examined material 20.0-23.5 mm (n = 7). The genitalia of the males and females match well with the description by RAZOWSKI (1966); however, in the female genitalia of the examined specimens, the colliculum is not as short as described previously. This species was previously reported from Shiraz, Fars (8.xi.1949 and 20.ix.1950 on *Salix* sp.) (RAZOWSKI 1963).

***Acleris variegana* ([DENIS & SCHIFFERMÜLLER], 1775)**

**M a t e r i a l e x a m i n e d :** Esfahān province: 1♂, Kashān, 16.ix.2000; Tehrān province: 1♂, Firuzkuh, Hesārbon, 1600 m, 5.-6.x.1981, Pāzuki leg., 3♂♂, Damāvand, Ābsard, 1900 m, 3.-7.vii.1978, Pāzuki, Sabzevāri leg., Golestān province: 1♂, Golestān National Park, Tang-e Gol, 29, 30.x.1998, Manzari, Moghaddam, N. Nazari leg., 1♀, Golestān National Park, Tang-e Gol, 600 m, 27.-30.x.1989, Badii, Pāzuki leg.; Māzandarān province: 1♂, Āmol, Behak forest, 300 m, 22.x.1974, Borumand, Pāzuki leg., 1♂, Tonekābon lab., 10.-11.viii.1980, Pāzuki, Borumand leg.

**D i s t r i b u t i o n :** A Palaearctic species occurring from W. Europe and NW. Africa to Iran, Turkmenia, Afghanistan and China. Established in North America (Razowski 2002).

**R e m a r k s :** The wingspan of the examined specimens 12.5-16.5 mm (n = 9). Different forms are present among the studied material. There are some intraspecific variations in the male genitalia of some specimens (those from the Firuzkuh region), especially in the shape of saccus which is not semicircular with round edges in part, but is more or less triangular, which may probably be caused by their position in the slide. The mid-ventral part of the sacculus is more depressed. This species was previously reported from Karaj, Elburz Mts. (17.v.1936, Brandt leg.), Tehran (6, 14.vi.1939) (RAZOWSKI 1963), Mirabi Mts. (RAZOWSKI 1984) and Golestan National Park (Qaleh Palangan, Sasan, Tang-e Gol) (WIESER et al. 2001).

***Acleris rhombana* ([DENIS & SCHIFFERMÜLLER], 1775)**

**M a t e r i a l e x a m i n e d :** Golestān province: 1♂, Golestān National Park, Tang-e Gol, 600 m, 27.-30.x.1989, Badii, Pāzuki leg., 1♂ 2♀♀, 29, 30.x.1998, Manzari, Moghaddam, N. Nazari leg.

**D i s t r i b u t i o n :** West Palaearctic: Europe to Caucasus, Armenia and Turkmenia (RAZOWSKI 2002).

**R e m a r k s :** Wingspan 17.5-18.5 mm (n = 6). In all the examined specimens except one female that is brown with heavy brown markings, ground colour of the forewing is creamy to yellow, with brown-grey markings; in the male genitalia of the examined material, terminal part of the valvae is sub-circular with rounded tip and not sub-triangular. This species is new to the fauna of Iran.

***Acleris quercinana* (ZELLER, 1849)**

**M a t e r i a l e x a m i n e d :** West Āzarbāijān province: 2♀♀, 15 km E Sardasht, 23.vi.1975, Abāi leg., 1♀, Sardasht, 17.viii.1974, Abāi leg., 2♀♀, Pirānshahr, Firuzābād, 15.vii.1978, Abāi leg.; Kermānshāh province: 1♀, Eslāmābād, Chāhārzebar, 1600 m, 1.vii.1972, Mirzāyāns, Abāi leg.

**D i s t r i b u t i o n :** Europe excluding the northern territories (British Islands, Scandinavia) and Asia Minor (RAZOWSKI 2002).

**R e m a r k s :** Wingspan of examined females 12.0-15.5 mm (n = 6). In the female genitalia there is considerable variation in the shape of the sterigma, in that in most of the specimens the proximal corners are strongly elongated, but this might be a clinal variation; however, in the female specimen collected from Sardasht on 17.viii.1974, the

sterigma have the same shape as illustrated by RAZOWSKI (2002). The species is new to the fauna of Iran.

***Acleris sparsana* ([DENIS & SCHIFFERMÜLLER], 1775)**

**M a t e r i a l e x a m i n e d :** Golestān province: 1 ♀, Golestān National Park, Tang-e Gol, 600 m, 27.-30.x.1989, Badii, Pāzuki leg.

**D i s t r i b u t i o n :** European species: W. Europe to Caucasus, rare or unknown from the southern parts of the continent (RAZOWSKI 2002).

**R e m a r k s :** Wingspan 16.5 mm. The species is new to the fauna of Iran.

***Acleris lacordairana caucasica* FILIPJEV, 1962**

**M a t e r i a l e x a m i n e d :** Māzandarān province: 1 ♂, Sāri, Amreh 2 vill., Amreh forest, 500 m, 10.vi.2005, Ālipanāh, Nematīān, Sinaev leg., 1 ♀, Āmol-Tehrān Rd., Archappeh, 8.vi.2005, Nematīān, Ālipanāh, Sinaev leg.

**D i s t r i b u t i o n :** Mountains of Europe (Alps), East Balticum, northern parts of European Russia, Primorsk and Amur Territory; N. China (RAZOWSKI 2002).

**R e m a r k s :** Wingspan of the examined material 12.5-15.0 mm. *A. lacordairana* (Duponchel) was previously reported from Iran (Golestan province, Golestan National Park, Tang-e Gol) (WIESER et al. 2001), but *A. lacordairana caucasica* is new to the fauna of Iran.

***Acleris lorquiniana* (DUPONCHEL, 1835)**

**M a t e r i a l e x a m i n e d :** Gilān province: 3 ♀ ♀ 1 ♂, Rasht, viii.1971, Shenāsi leg.

**D i s t r i b u t i o n :** Known from C. and N. Europe (RAZOWSKI 2002).

**R e m a r k s :** Wingspan 17-20 mm (n = 4). Different forms of wing pattern can be seen within the examined material from the same locality.

***Acleris forsskaleana* (LINNAEUS, 1758)**

**M a t e r i a l e x a m i n e d :** Chāhārmahāl & Bakhtiari province: 1 ♀, Dopolān, Mashāyekh Bakhtiāri, Helen forest, N 31° 53' 50", E 50° 34' 56", 24.vi.2005, 1800 m, Zahiri, Olivier leg.; East Āzarbāijān province: 3 ♂ ♂ 3 ♀ ♀, Kaleybar, Āinālou, Alhord, Arasbārān forest, N 38° 55' 1.1", E 46° 47' 38", 1440 m, 28.vii.2007, Zahiri, Ālipanāh, Falsafi leg.

**D i s t r i b u t i o n :** Europe; introduced to North America (RAZOWSKI 2002).

**R e m a r k s :** Wingspan 13.0-13.5 mm (n = 7). This species is new to the fauna of Iran.

***Acleris hastiana* (LINNAEUS, 1758)**

**M a t e r i a l e x a m i n e d :** Māzandarān province: 1 ♀, Āmol, Chamestān, Vāz vill., N 36° 21' 46.9", E 052° 06' 03.1", 557 m, 28.vi.2007, Ālipanāh, Nematīān leg.

**D i s t r i b u t i o n :** Holarctic region (RAZOWSKI 1966).

**R e m a r k s :** Wingspan in single examined specimen 16.5 mm. This species was previously reported from Iran (Gorgan) (ABIVARDI 2001)

## Tribe *Archipini*

### Genus *Archips* HÜBNER, 1822

#### *Archips xylosteara* (LINNAEUS, 1758)

**Material examined:** East Āzarbāijān province: 3♂♂ 1♀, Marand, 1, 5.vi.1974, Damanābi leg., 1♀, Zonuz, 16.vii.1967, Ārghand leg., 1♂, Kaleybar, Vāyeghān, 1440 m, 5.-6.viii.1992, Parchami-Arāghi, Badii leg.; Giāln province: 1♂, Siāhkal, 1700 m, 1.vii.1998, Mofidi-Neyestānak leg.; Golestān province: 1♂, Golestān National Park, Tang-e Rāh, 930 m, 7.v.2000, Badii, Ebrāhimi, Moghaddam, Mofidi-Neyestānak leg., 1♂, Dasht-e Shād, 1500 m, 9.VI.2000, Moghaddam, Mofidi-Neyestānak, Ebrāhimi, Badii leg., 1♂, Ālmeh, 1600 m, 26.-29.v.1986, Pāzuki leg.; Māzandarān province: 1♂, Tonekābon, Sehezār, 980 m, 27.vi.1998, Mofidi-Neyestānak leg.; Tehrān province: 4♂♂, Damāvand, 15.vi.1968, Sabzevāri leg., 1♀, Evin, 13.vi.1976 (L.T.); Zanjān province: 2♀♀ 8♂♂, Yuhkārīchāy, 3.vii.1998, Mofidi-Neyestānak leg.; Ilām province: Chovār, Tang-e Dālāb, 1200 m, 15.v.1997, Sarafāzi, Badii, V. Nazari leg. (without abdomen).

**Distribution:** Palaearctic Region from W. Europe to Asia Minor, Central Asia and Japan; in Europe northward to 64° in Sweden (RAZOWSKI 2002).

**Remarks:** Wingspan of the examined females 21.5-22.5 mm (n = 4), that of males 16.5- 21.0 mm (n = 21). In the male genitalia, apex of the uncus in one of the examined specimens (Marand) is nearly trapezoidal and wider than that illustrated by RAZOWSKI (1977). This species was also previously reported from Tehran (MODARRES AWAL 1997), Tang-e Gol (Golestan province, Golestan National Park) (WIESER et al. 2001).

#### *Archips rosana* (LINNAEUS, 1758)

**Material examined:** Tehrān province: 4♂♂, Damāvand, Ābsard, 1900 m, 3.-7.vii.1978, Pāzuki, Sabzevāri leg., 1♀ 2♂♂, Firuzkuh, Jābān, Sorkhdasht, 1.iv.1998, Ālipanāh leg., 1♂, Robāt-Karim, Urin, 1050 m, 24.-25.v.1993, Parchami-Arāghi, Badii leg.; Ghazvin province: 1♂, Alamut, Koshk-Dasht, 1470 m, 8.vi.1995, Parchami-Arāghi, Ardeh, Ebrāhimi leg.; Khorāsān-e Shomālī province: 1♂, Mashhad, Ābkuh, 24.v.1971, Shāhrokhi leg.; Gilān province: 1♂, Rasht, Pirānshahr, 19.vi.1975, Abāi leg.; Māzandarān province: 1♂ 1♀, Nowshahr, 25.v.1974, Abāi leg.; West Āzarbāijān province: 1♂, 15 km N E Sardasht, 23.vi.1975, Abāi leg., East Āzarbāijān province: 1♂, Siāhchamān, 1600 m, 15.vii.1976, Pāzuki, Broumand leg.; Golestān province: 1♂, Golestān National Park, Mazārli, 530 m, 19.-20.vi.1977, Pāzuki, Abāi leg., 1♂, Golestān Dasht, 960 m, 18.vi.1977, Pāzuki, Abāi leg., 1♂, Gonbad-Kavus, Golestān forest, 21.vi.1974, Pāzuki, Rajabi leg.; Ardebil province: 1♀, Āstārā- Ardebil Rd., Heyrān cervix, N 38° 23' 41.2", E 48° 35' 25", 890 m, 1.viii.2008, Nematīān, Ālipanāh leg.

**Distribution:** Palaearctic species; in Sweden northward to 66°. By the end of XIX century, introduced to North America (RAZOWSKI 2002).

**Remarks:** In the examined material, wingspan of the females 17-21 mm (n = 2), that of males 15.0-18.5 mm (n = 14). In the male genitalia of the studied specimens there is a peculiar variation in the shape of the saccular process, in that some have saccular processes with rounded tips, while in some others it is tapered and pointed at the end. This species was previously reported from Khorasan, northern and central part of Iran (ABAI 1984), Azarbaijan, Zanjan, Tehran, Markazi, Khorasan and Kordestan provinces

(MODARRES AWAL 1997) and from Golestan National Park (Qaleh Palangan, Sasan, Tang-e Gol) (WIESER et al. 2001).

***Archips podana* (SCOPOLI, 1763)**

**M a t e r i a l e x a m i n e d :** Golestān province: 3 ♀ ♀, Golestān National Park, Tang-e Rāh, 930 m, 7.v.2000, Badii, Ebrāhimi, Moghaddam, Mofidi-Neyestānak leg.; Kermānshāh province: 2 ♀ ♀, Eslāmābād, 30.vi.1971, Kalāli, Shāhrokhi leg.; Khorāsān-e Shomāli province: 1 ♀, Zoshk, Binālud Mt., 2000 m, 19.vi.1979, Rajabi leg., Mashhad, Zoshk, 3.vi.1972, Shāhrokhi leg., 1 ♀, Mashhad, Ābkuh, 24.v.1971, Shāhrokhi leg.

**D i s t r i b u t i o n :** Known from Europe; the data from Asia Minor have not been checked; those from the Far East are incorrect (RAZOWSKI 2002).

**R e m a r k s :** Wingspan in the examined females 18-21 mm. This species was previously reported from Iran (Tehran, on apple and cherry) (MODARRES AWAL 1997).

***Archips philippa* (MEYRICK, 1918)**

**M a t e r i a l e x a m i n e d :** Kermān province: 6 ♂ ♂ 1 ♀, Bāft, Ghanāt-e Marvān, 2800 m, 22.-23.v.1977, Safavi, Pāzuki, Abāi leg.

**D i s t r i b u t i o n :** Afghanistan, Pakistan, Kashmir (RAZOWSKI 1993); (RAZOWSKI 1977) recorded it from Karakorum.

**R e m a r k s :** In the examined specimens, females slightly larger than males (22.5 mm, n = 1 comparing to 19.5-22.0 mm, n = 6). This species is newly recorded for the fauna of Iran.

***Archips crataegana* (HÜBNER, [1799])**

**M a t e r i a l e x a m i n e d :** Gilān province: 2 ♀ ♀, Siāhkal, 1700 m, 1.vii.1998, Mofidi-Neyestānak leg.

**D i s t r i b u t i o n :** W. Palaearctic region (RAZOWSKI 2002).

**R e m a r k s :** Wingspan 20.5-22.5 mm. This species is new to the fauna of Iran.

**Genus *Choristoneura* LEDERER, 1859**

***Choristoneura lafauryana* (RAGONOT, 1875)**

**M a t e r i a l e x a m i n e d :** Gilān province: 1 ♀, Asālem, Gisum, 160 m, 18.viii.1980, Pāzuki, Borumand leg., 2 ♂ ♂, 5 km Lākān Rd., 63 m, 25.vi.2003, Moghaddam, Nāserzādeh leg., 1 ♂, Bandar Anzali, 29.ix.1970, Ebert, Abāi leg., 4 ♂ ♂ 2 ♀ ♀, Rasht, 6, 10.vii.1971, viii.1971, 2 ♀ ♀, 30.v.1972, Shenāsi leg., 3 ♂ ♂, Rasht, Sefidrūd, 20.x.1973, Shenāsi leg.; Tehrān province: 1 ♂ 1 ♀, Karaj, 17.vii.1971; Māzandarān province: 1 ♂, Nowshahr, 10.viii.1971, Ghāziōff leg., 2 ♀ ♀, 10 km Tonekābon, 20.v.1973, Abāi leg., Tonekābon, 20.v.1973, 1 ♀, 6.vi.1974, Abāi leg., 2 ♂ ♂, Amol-Tehrān Rd., Archappeh (Emāmzādeh Abdollāh), 8.vi.2005, Nematīān, Ālipānāh, Sinaev leg., 1 ♂, Tonekābon lab., 10.-11.viii.1980, Pāzuki, Borumand leg., 4 ♂ ♂, Tonekābon, 30.ix.1981, Pāzuki leg., 5 ♂ ♂, Tonekābon, 3 km W Shirud, 26.ix.1981, Pāzuki leg.

**D i s t r i b u t i o n :** Known from S. and C. Europe to Transcaucasia, Asia Minor, S. Siberia, Russian Far East, Korea, China and Japan (RAZOWSKI 2002).

**Remarks:** In the examined specimens wingspan of the females 21-27 mm (n = 9) and that of males 15-23 mm (n = 24). The species is new to the fauna of Iran.

***Choristoneura hebenstreitella* (MÜLLER, 1764)**

**Material examined:** No specimens were available for examination in this study.

**Distribution:** Known from Europe (RAZOWSKI 2002).

**Remarks:** This species was previously reported from Iran as a pest of apple in the Tehran region (MODARRES AWAL 1997).

**Genus *Argyrotaenia* STEPHENS, 1852**

***Argyrotaenia ljugiana* (THUNBERG, 1799)**

**Material examined:** Ardebil province: 2 ♀♀, Sabalān, Qotur suiee, N 38° 21' 53.9", E 47° 51' 43.4", 2276 m, 25.-26.vii.2007, Ālipanāh, Zahiri, Falsafi leg. ; Gilān province: 1 ♀, Āstārā-Namin Rd., 10 km W Āstārā, N 38° 26' 01.7", E 048° 46' 47.3", 97 m, 24.vii.2007, Zahiri, Ālipanāh leg.

**Distribution:** Palaearctic species distributed from Iberian Peninsula and NW. Africa to China and Russian Far East (RAZOWSKI 2002), but excluding Japan (RAZOWSKI 1993).

**Remarks:** Wingspan 14.5-15.0 mm (n = 3). This species is new to the fauna of Iran.

**Genus *Ptycholoma* STEPHENS, 1829**

***Ptycholoma erschoffi* CHRISTOPH, 1877**

**Material examined:** Golestān province: 1 ♀, Golestān National Park, Tang-e Gol, 620 m, 23.-25.v.1986, Pāzuki leg., 1 ♂, Golestān National Park, Ālmeh, 1650 m, 6.-13.iv.1993, Pāzuki, Badii leg.

**Distribution:** Known from SE. part of European Russia, Caucasus, Transcaucasia, Transbaikalia, Turkmenia, Asia Minor and Iran (RAZOWSKI 2002); one species occurs in the Middle East (Asia Minor, Iran) (RAZOWSKI 1987).

**Remarks:** In the examined specimens female is larger than male (wingspan in the female 21.5 mm and that of the male 17 mm). The type specimen of this species was collected from Shahrud region (RAZOWSKI 1993).



## Genus *Pandemis* HÜBNER, 1825

### *Pandemis chondrillana* (HERRICH-SCHÄFFER, 1860)

**Material examined:** Gilān province: 2♂♂, Lāhijān, 4.viii.1969, Abāi leg.; Tehrān province: 4♂♂, Tehrān, Shemshak, 25.vii.1969, Mirzāyāns, Abāi leg., 1♀ 1♂, Sāvōjbolāgh, E Gatehdeh, Elburz Mt., N 36° 10' 39.6", E 51° 02' 20.9", 2260 m, 31.vii.-01.viii.2007 (L.T.), Zahiri, Alipanāh, Falsafī leg., 1♂, Damāvand, Ābsard, 1900 m, 3.-7.vii.1978, Pāzuki, Sabzevāri leg., 1♀, Tāleghān, 4.v.1981, 2♀♀, Tāleghān, Sabzān, 1550 m, 30.viii.-1.ix.1996, Badii, Barāri, Sarafrazī leg., 1♂, Firuzkuh, Jābān, Sorkhdasht (apple garden), 1.iv.1998, Ālipanāh leg.; Khorāsān-e Shomali province: 1♂ 3♀♀, Mashhad, Zoshk, 18, 25.viii., 11.ix.1971, Shāhrokhi leg., 1♂, 3.ix.1971 Zāre leg., 5♂♂, 4.vi.1971, Kalāli, Shāhrokhi leg., 3♂♂, 10.vii.1971, 1500 m, Pāzuki, Āyatollāhi leg., 1♂, Darreh-Gaz, 1.viii.1971, Pāzuki, Āyatollāhi leg.; East Āzarbāijān province: 1♀, Siāhchamān, 1600 m, 15.vii.1976, Pāzuki, Broumand leg., 3♂♂ 1♀, Bāsmenj, 6.vi.1974, Damanābi leg., 1♂, Marand, 6.vi.1974, Damanābi leg.; Ardebil province: 1♂, Moghān, 1.ix.1974, Kāzemi leg.; Semnān province: 1♀, Shāhrud, Kālpush, 1300 m, 25-26.viii.1982, Hāshemi leg.; Golestān province: 1♀, Gorgān, Shāhkuh-e Bālā, 2400 m, 19.vii.2003, Ālipanāh, Ebrāhimi leg.

**Distribution:** Europe: known from France, Romania, Bulgaria, Ukraine and southern part of European Russia; also recorded from Asia Minor, Iran, Afghanistan and from Kazakhstan through Siberia to Mongolia, Central Asia and NW. China (RAZOWSKI 2002).

**Remarks:** Wingspan of the examined females 19.5-25.0 mm (n = 11) and that of the males 19-23 mm (n = 25). Most of the examined specimens have small black dot at the lower edge of the subterminal oblique line of the forewing. This species was also reported from Hamedan (19.vi.1938) (RAZOWSKI 1963).

### *Pandemis cerasana* (HÜBNER, 1786)

**Material examined:** Gilān province: 1♂ 1♀, Asālem, Pisāson, 1300 m, 15.-16.viii.1980, Pāzuki, Borumand leg.

**Distribution:** Transpalaeartic species widely distributed in Europe, from Iberian Peninsula to Ural Mts and Caucasus, then S. Siberia, Kazakhstan, Mongolia, China and Far East; also Asia Minor, Iran. Introduced to North America (RAZOWSKI 2002).

**Remarks:** Wingspan of the examined female 18.5 mm and that of male 16.5 mm. This species (as *P. ribeana* HÜBNER) was previously collected from East Azarbaijan, Khorasan, Tehran and Markazi provinces (MODARRES AWAL 1997).

### *Pandemis dumetana* (TREITSCHKE, 1835)

**Material examined:** Māzandrān province: 6♂♂ 1♀, Tonekābon lab., 10.-11.viii.1980, Pāzuki, Borumand leg., 1♂, Tonekābon, 250 m, 22.vii.1980, Hāshemi, Zairi leg., 1♀, Rāmsar, N 36° 54' 29.6", E 050° 35' 13.6", 6 m, 23.vii.2007, Ālipanāh leg.; Gilān province: 1♂, Rasht: vii.1971. Shenāsai leg., 2♂♂, Bandar Anzali, 29.ix.1970, Ebert, Abāi leg.

**Distribution:** Transpalaeartic species: Europe to Ural Mts, Asia Minor, Iran, S. Siberia, Transcaucasia, Far East, NW. China, Korea, Japan (RAZOWSKI 2002).

**Remarks:** Wingspan of females 18-19 mm (n = 2) and that of males 13-17 mm (n = 9).

***Pandemis heparana* ([DENIS & SCHIFFERMÜLLER], 1775)**

**Material examined:** Gilān province: 3♂♂, Asālem, Gisum, 160 m, 18.viii.1980, Pāzuki, Borumand leg., 1♂, Bandar Anzali, 15 km Asālem-Pisāson, 220 m, 30.viii.1975, Mirzāyāns leg.; Māzandarān province: 3♂♂, Tonekābon, Dohezār, 1000 m, 9.vi.2005, Nematīān, Ālipanāh, Sinaev leg., 1♂, Āmol-Tehrān Rd., Archappeh (Emāzādeh Abdollāh), 8.vi.2005, Ālipanāh, Nematīān, Sinaev leg., 1♂, 15 km Chālus, 220 m, 2.ix.1975, Mirzāyāns leg., 1♀, Rāmsar-Javāherdeh Rd. (km 6), N 36° 54' 29.3", E 050° 35' 13.2", 554 m, 23.vii.2007, Ālipanah, Zahiri leg., 1♀ 3♂♂, Nekā, N 36° 30' 16.7", E 053° 23' 27", 527 m, 30.ix.2007, Ālipanāh, Buszko, Zahiri leg. 1♀, Sāri, Amreh forest N 36° 23' 11.1", E 053° 8' 48.8", 588 m, Ālipanāh, Buszko, Zahiri leg.; Fārs province: 1♂, Kāzerun, 970 m, 10.x.1994, Abāi leg.; Golestān province: 1♀, Gorgān, Aliābād, 12.vi.1974, Rajabi, Pāzuki leg., 1♀, Golestān National park, Mazārli, 530 m, 19.-20.vi.1977, Pāzuki, Abāi leg.

**Distribution:** Transpalaeartic species (RAZOWSKI 2002).

**Remarks:** Wingspan of females 18-24 mm (n = 7) and that of males 14-20 mm (n = 13). The species is new to the fauna of Iran.

***Pandemis corylana* (FABRICIUS, 1794)**

**Material examined:** No specimens were available for examination in this study.

**Distribution:** Transpalaeartic species: W. Europe to Ural Mts, S. Siberia, Kazakhstan, Cisbaikalia, NW. China, Far East; also Asia Minor (RAZOWSKI 2002).

**Remarks:** This species was previously reported from the central and northern provinces of Iran (MODARRES AWAL 1997).

**Genus *Aphelia* HÜBNER, 1825**

***Aphelia (Zelothereses) christophi* OBRAZTSOV, 1955**

**Material examined:** Hamedān province: 2♂♂, Barāt, 2350 m, 8.viii.1997, Barāri, Mofidi-Neyestānak leg., 2♂♂, Tārikdarreh, 2000 m, 26.vii.1987, Leg. Mirzāyāns, Hāshemi leg.; Ardebil province: 1♂, Moghān, 20.viii.1967, Damanābi leg., 3♂♂, Sabalān, Sarāb, 30.vii.1970, Naim leg.; Tehrān province: 1♂, Karaj, Gachsar, Dizin, 3000 m, 10.-12.viii.1975, Pāzuki, Abāi leg.; Khgiluyeh & Boyerahmad province: 1♀, Yāsuj, Sisakht, 2250 m, 13.vi.1972, Ebert, Pāzuki leg.

**Distribution:** Iran: Elburz Mts. (RAZOWSKI 1981, 1993).

**Remarks:** Wingspan of the single female 28 mm and that of males 23-26 mm (n = 9), as in the specimens collected by Brandt in 1937 (RAZOWSKI 1981). In the present study there is slight variation in the shape of the median part of the transtilla of the examined specimens, which varies from triangular or cone-shaped to slightly short or moderately trapezoidal (fig. 1); minute spines on lateral parts of the transtilla are not clear. Proximal end of uncus in all the examined specimens is broad and trapezoidal. Terminal plate of gnathos usually rounded apically, sometimes with smooth edge (the specimen from Karaj, Dizin). No cornuti present in vesica.

The type locality of this species is Iran (Shahrud). It was previously reported from Fars province (Ardekan, Talaekhosro, Comee (Barm-i-Firuz)) (RAZOWSKI 1981), Nisa (erroneous spelling of Nesa), Elburz Mts., Tochal and Alvand (RAZOWSKI 1993).

***Aphelia (Zelothereses) peramplana* (HÜBNER, [1825])**

**M a t e r i a l e x a m i n e d :** Golestān province: 17♂♂, Golestān National Park, Ālmeḥ, 1600 m, 26.-29.v.1986, 23♂♂, 1600 m, 17.-25.v.1988, Pāzuki leg. 1♂, 1650 m, 13.iv.1993, Badii, Pāzuki leg., 1♂, Sulgerd, 1150 m, 7.v.1999, Moghaddam, Barāri, Manzari leg.

**D i s t r i b u t i o n :** W. Palaearctic species; in Europe from Portugal to Greece, North Africa (Morocco, Tunisia) and Malta, Crete, Iraq, East to Transcaucasia, Siberia and Asia Minor (RAZOWSKI 2002).

**R e m a r k s :** Wingspan of the examined males 25.0-31.5 mm. In the genitalia of the examined males, median part of transtilla in dorsal margin broadly convex and mostly with minute spines throughout. Proximal end of uncus in the form of a wide triangle. This species is new to the fauna of Iran.

***Aphelia (Zelothereses) ochreana* (HÜBNER, [1796-1799])**

**M a t e r i a l e x a m i n e d :** Ghazvin province: 6♂♂, Daryābak, 2150 m, 11.-12.vi.1995, Parchami-Arāghi, Ardeh, Ebrāhimi leg.; 2♂♂, Alamut, Gāzorkhān, 2080 m, 8.-9.vi.1995, Parchami-Arāghi, Ardeh, Ebrāhimi leg.; Tehrān province: 3♂♂, Karaj, Golhā, 2050 m, 24-25.iii.1991, Ebrāhimi, Badii leg.

**D i s t r i b u t i o n :** Southern part of Palaearctic region, from S. France to Greece, north to Switzerland, S. Germany, Hungary, east to SE. part of European Russia and Ukraine, Balkan Peninsula; also Caucasus, Asia Minor, Syria, Iraq (RAZOWSKI 2002).

**R e m a r k s :** Wingspan of the examined males 20.0-23.5 mm (n = 11). The species is new to the fauna of Iran.

***Aphelia (Zelothereses) consica* RAZOWSKI, 1981**

**M a t e r i a l e x a m i n e d :** No specimens were available for examination in this study.

**D i s t r i b u t i o n :** Iran: Fars (RAZOWSKI 1993).

**R e m a r k s :** The type specimen of this species was collected from Fars province (Ardekan-Talekhosro Road, Comee, Barm-i Firuz) (RAZOWSKI 1993).

***Aphelia (Aphelia) viburnana* ([DENIS & SCHIFFERMÜLLER], 1775)**

**M a t e r i a l e x a m i n e d :** Zanjān province: 1♂ 1♀, 54 km E Zanjān, Amirābad, 1780 m, 14.vii.1976, Pāzuki, Borumand leg.

**D i s t r i b u t i o n :** Widespread in the Palaearctic region: from Portugal and British Isles to Ural Mts, Siberia, Mongolia, then the Far East as far as Primorsk and Kuril Is (RAZOWSKI 2002).

**R e m a r k s :** Wingspan of the only examined female 22 mm and that of male 23 mm. This species is new to the fauna of Iran.

## Genus *Clepsis* GUENÉE, 1845

### *Clepsis pallidana* (FABRICIUS, 1776)

**M a t e r i a l e x a m i n e d :** East Āzarbāijān province: Kaleybar, Tātār, Gharghāvöl research station, 345 m, N 38° 21' 53.9", E 47° 51' 43.4", 27.vii.2007, Ālipanāh, Zāhiri, Falsafi leg.

**D i s t r i b u t i o n :** Palaearctic species known from W. Europe to Japan (RAZOWSKI 2002).

**R e m a r k s :** Wingspan of the single examined female 15.5 mm. This species was previously reported from Iran (RAZOWSKI 1993).

### *Clepsis rurinana* (LINNAEUS, 1758)

**M a t e r i a l e x a m i n e d :** No specimens were available for examination in this study.

**D i s t r i b u t i o n :** Palaearctic species distributed in Europe from Iberian Peninsula to Ural Mts; reported also from Iran, Afghanistan, Siberia to Primorsk, Mongolia, China and Japan. Known also from Oriental region: Nepal and India (RAZOWSKI 2002).

### *Clepsis consimilana* (HÜBNER, 1817)

**M a t e r i a l e x a m i n e d :** No specimens were available for examination in this study.

**D i s t r i b u t i o n :** W. Africa to Lebanon, Asia Minor, W. Europe to E. European Russia; Nearctic region (introduced) (RAZOWSKI 2002).

**R e m a r k s :** This species was previously reported from Iran (Tehran, on apple) (MODARRES AWAL 1997).

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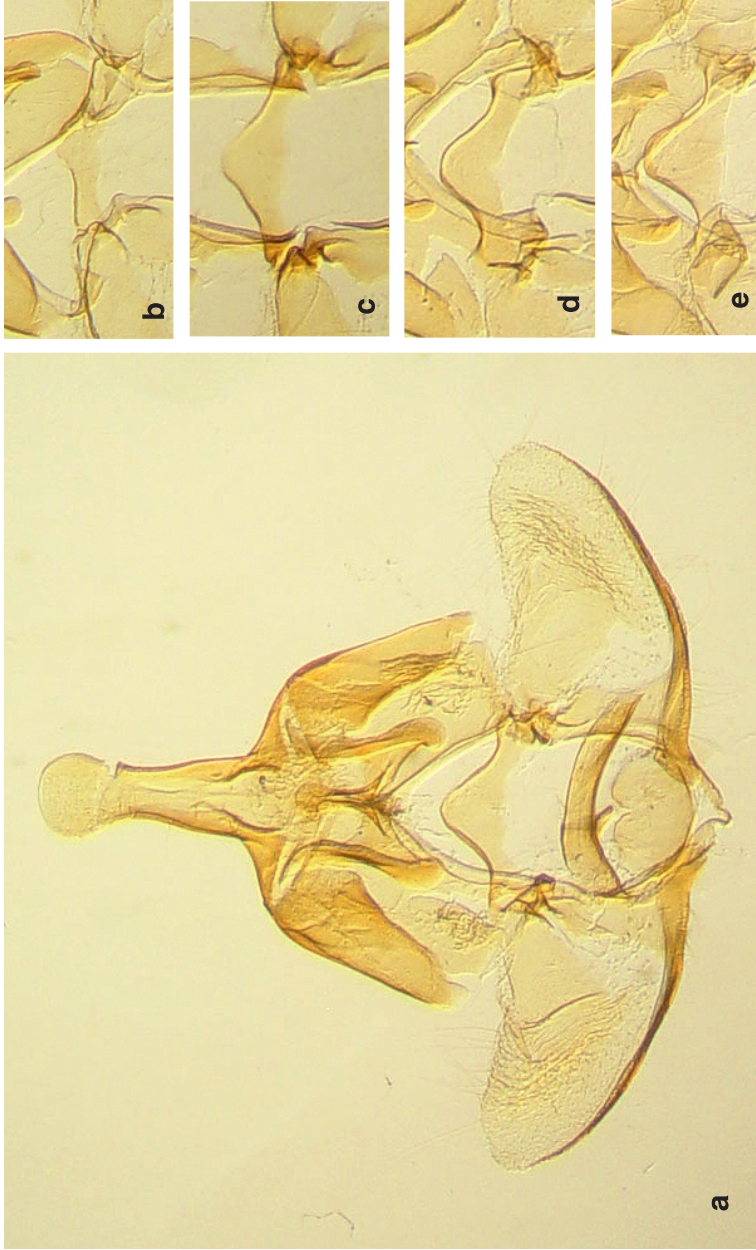
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**Fig. 1:** Male genitalia of *Aphelia christophi* OBRAZTSOV (a); median part of transtilla in the specimens from Sabalån (b), Hamedân (Barat) (c), Moghân (d), Karaj (e).

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